

CLAIMS

1. Antenna system that comprises:

- a first antenna of a first type (10), and
- second and third antennas (11, 12) of a second type,

5 characterized in that the first to third antennas (10 to 12) are slots which are excited by longitudinal radiation and are placed on the same edge of the same substrate, and in that the first antenna (10) is placed between the second and third antennas (11, 12).

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2. System according to claim 1, characterized in that the first antenna (10) is a transmission antenna and the second and third antennas (11, 12) are reception antennas, and in that the first antenna (10) is offset with respect to the second and third antennas (11, 12) such that the 15 radiating extremity of the first antenna (10) extends beyond the radiating extremities of the second and third antennas (11, 12), the radiating extremity of the first antenna (10) being located in the radiating zones of the second and third antennas (11, 12).

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3. System according to claim 1 or 2, characterized in that a notch (40) in a ground plane (13) of the substrate is placed between the first antenna (10) and the second antenna (11) as well as between the first antenna (10) and the third antenna (12).

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4. System according to one of claims 1 to 3, characterized in that the slots (10 to 12) are excited by feed lines constituted by microstrip lines (14, 16, 17, 30).

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5. System according to claim 4, characterized in that the feed lines of the second and third antennas (11, 12) constitute a single microstrip line (30).

6. System according to claim 5, characterized in that the microstrip line (30) constituting the feed lines of the slots of the second and third antennas (11, 12) crosses the slot of the first antenna (10), in that the crossing point (31) is situated on the microstrip line (30) at a distance, from 5 the extremity of the said line, in the order of an odd multiple of half the guided wavelength (λ_m) in the microstrip line, and in that the crossing point (31) is situated on the slot (10) at a distance from a closed extremity of the said slot in the order of an odd multiple of half the guided wavelength (λ_f) in the slot.

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7. System according to claim 6, characterised in that the extremities of the slots of the second and third antennas (11, 12), being situated opposite the radiating extremity, open out onto a break (34, 35), in the ground plane on which they are drawn, the break of the ground plane 15 being able to be short-circuited via a diode (38, 39).

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8. PCMCIA standard interface card characterized in that it comprises an antenna system according to one of claims 1 to 7.

9. Card according to claim 8, characterized in that the antenna system is placed at the end of the card in a zone placed outside a card drive.